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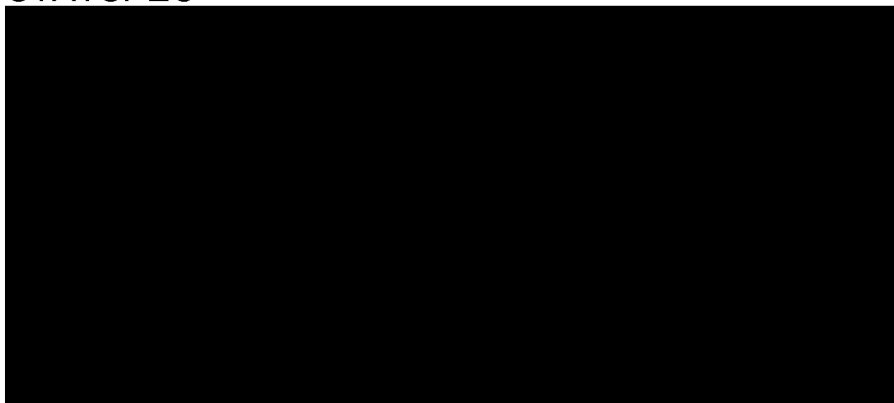
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Technical Sciences Prof Andrey Grigor'yevich Samoylov, Corresponding Member of the Ukrainian Academy of Sciences Grigoriy Valentinovich Samsonov, Doctor of Technical Sciences Prof Fedor Vladimirovich Sedykin, Doctor of Chemical Sciences Kirill Nikolayevich Semenenko, Doctor of Technical Sciences Prof Lev Dmitriyevich Sokolov, Doctor of Chemical Sciences Prof Boris Dmitriyevich Stepin, Doctor of Technical Sciences Prof Vladimir Vasil'yevich Timashev, Doctor of Technical Sciences Prof Yevgeniy Pavlovich Unksov, Doctor of Technical Sciences Prof Iosif Naumovich Fridlyander, Doctor of Technical Sciences Gennadiy Petrovich Sveykin, Doctor of Technical Sciences Prof Minas Khachaturovich Shorshorov, Doctor of Chemical Sciences Robert Nikolayevich Shchelokov, Doctor of Physicomathematical Sciences Prof Yevgeniy Dmitriyevich Shchukin, Doctor of Technical Sciences Prof Vladimir Ivanovich Yavoyskiy, and Doctor of Chemical Sciences Prof Gennadiy Alekseyevich Yagodin.

Division of Biochemistry, Biophysics and the Chemistry
of Physiologically-Active Compounds

Doctor of Biological Sciences Prof Vladimir Yakovlevich Akelsandrov, Doctor of Biological Sciences Prof Igor' Petrovich Ashmarin, Doctor of Biological Sciences Rof Raisa Georgiyevna Butenko, Doctor of Biological Sciences Prof Yakov Abramovich 18/23

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Vinnikov, Doctor of Chemical Sciences Boris Pavlovich Gottikh, Doctor of Biological Sciences Prof Ivan Andreyevich Yegorov, Doctor of Biological Sciences Aleksandr Vladimirovich Zelenin, Doctor of Physicomathematical Sciences Prof Genrikh Romanovich Ivanitskiy, Doctor of Chemical Sciences Marat Yakovlevich Karpeyskiy, Corresponding Member of the USSR Academy of Medical Sciences Anatoliy Nikolayevich Klimov, Doctor of Biological Sciences Yefim Arsent'yevich Liberman, Doctor of Biological Sciences Igor Borisovich Raykov, Doctor of Biological Sciences Ryurik Konstantinovich Salyayev, Doctor of Chemical Sciences Prof Georgiy Vasil'yevich Samsonov, Doctor of Biological Sciences Prof Vladimir Petrovich Skulachev, Doctor of Biological Sciences Prof Boris Nikolayevich Stepanenko, Doctor of Biological Sciences Prof Roman Beniaminovich Khesin-Lur'ye, and Doctor of Chemical Sciences Prof Viktor Andrevich Yakovlev.

Division of General Biology

Doctor of Biological Sciences Yuriy Petrovich Altukhov, Doctor of Biological Sciences Yuriy Sergeyevich Balashov, Doctor of Biological Sciences Prof Georgiy Georgiyevich, Doctor of Biological Sciences Prof Nikolay Nikolayevich Vorontsov, Doctor of Biological Sciences Prof Roman Fedorovich Gekker, Doctor of Medical Sciences Prof Iosif Isayevich Gitel'zon, Doctor of Biological Sciences Prof Mikhail Vladimirovich Gorlenko
19/23

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Doctor of Biological Sciences Prof Nikolay Vladislavovich Dylis, Doctor of Medical Sciences Galina Dmitriyevna Zasukhina, Doctor of Biological Sciences Aleksandr Sergeyevich Isayev, Corresponding Member of VASKhNIL /All-Union Academy of Agricultural Sciences imeni V. I. Lenin/ Viktor Vladislavovich Koval'skiy, Doctor of Biological Sciences Prof Petr Andreyevich Korzhuyev, Doctor of Biological Sciences Prof Leonid Viktorovich Kurshinskiy, Doctor of Biological Sciences Oleg Grigor'yevich Kusakin, Doctor of Biological Sciences Prof Aleksandr Aleksandrovich Malinovskiy, Doctor of Biological Sciences Prof Petr Alekseyevich Moiseyev, Academician of the Azerbaydzhan Academy of Sciences Musa Abdurakhman ogly Musayev, Doctor of Biological Sciences Prof Dmitriy Fedorovich Petrov, Corresponding Member of the Ukrainian Academy of Sciences Gennadiy Grigor'yevich Polikarpov, Doctor of Agricultural Sciences Prof Il'ya Yakovlevich Polyakov, Doctor of Biological Sciences Prof Boris Borisovich Rodendorf, Doctor of Biological Sciences Prof Leonid Yefimovich Rodin, Doctor of Biological Sciences Prof Lev Nikolayevich Seravin, Doctor of Biological Sciences Leonid Petrovich Tatarinov, Doctor of Biological Sciences Nikolay Grigor'yevich Khrushchov, and Doctor of Biological Sciences Prof Andrey Alekseyevich Yatsenko-Khmelevskiy.
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Division of Physiology

Doctor of Biological Sciences Prof Vadim Davydovich Gleser, Doctor of Biological Sciences Vladimir Aleksandrovich Govyrin, Doctor of Medical Sciences Prof Viktor Semenovitch Gurfinkel', Doctor of Biological Sciences Prof Boris Aleksandrovich Kudrashov, Doctor of Medical Sciences Prof Lev Aramovich Piruzyan, Doctor of Medical Sciences Prof Pavel Vasil'yevich Simonov, and Doctor of Medical Sciences Prof Aleksandr Ivanovich Shapovalov.

Division of Oceanology, Atmospheric Physics and Geography

Doctor of Physicomathematical Sciences Prof Yevgeniy Panteleymonovich Borisenkov, Doctor of Geological-Mineralogical Sciences Prof Artem Aramovich Geodekyan, Doctor of Physicomathematical Sciences Georgiy Sergeyevich Golitsyn, Doctor of Physicomathematical Sciences Prof Sergey Sergeyevich Zilitinkevich, Doctor of Physicomathematical Sciences Prof Yuriy Antoniyevich Izrael', Doctor of Physicomathematical Sciences Sergey Aleksandrovich Kitaygorodskiy, Doctor of Physicomathematical Sciences Irina Petrovna Kosminskaya, Doctor of Physicomathematical Sciences Gennadiy Pavlovich Kurbatkin, Doctor of Geographical Sciences Prof Oleg Konstantinovich Leont'yev, Doctor of Geological-Mineralogical Sciences Prof Aleksandr Petrovich Lisitsyn, 21/23

USSR

IZVESTIYA in Russian 1 Nov 74 pp 3-4

Doctor of Geological-Mineralogical Sciences Yankif Pankhusovich Malovitskiy, Doctor of Physicomathematical Sciences Prof Leonid Tikhonovich Matveyev, Doctor of Geographical Sciences Prof Georgiy Konstantinovich Sulakvelidze, Doctor of Geographical Sciences Prof Gleb Borisovich Udintsev, Doctor of Physicomathematical Sciences Prof Kusieli' Solomonovich Lulfrin, and Doctor of Physicomathematical Sciences Prof Akiva Moiseyevich Yaglom....

/The next sections of the article lists nominations in the Divisions of History, Philosophy and Law, Economics, Literature and Language/

Siberian Department

Doctor of Physicomathematical Sciences Prof Pavel Petrovich Belinskiy, Doctor of Physicomathematical Sciences Prof Gergey Vasil'yevich Bogdanov, Doctor of Chemical Sciences Prof Vladimir Vyacheslavovich Boldyrev, Corresponding Member of the USSR Academy of Pedagogical Sciences Viktor Anatol'yevich Buravikhin, Doctor of Geographical Sciences Konstantin Konstantinovich Votintsev, Doctor of Chemical Sciences Prof Nikolay Sergeyevich Vyazankin, Doctor of Physicomathematical Sciences Prof Sergey Konstantinovich Godunov, Doctor of Physicomathematical Sciences Prof Andrey Nikolayevich Didenko, Doctor of Physicomathematical Sciences Prof Gennadiy Ivanovich Dimov, 22/23

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USSR

IZVESTIYA in Russian 1 Nov 74 pp 3-4

Doctor of Technical Sciences Prof Nikolay Grigor'yevich Dubynin, Doctor of Physico-mathematical Sciences Prof Yuriy Dmitriyevich Kalinin, Doctor of Physicomathematical Sciences Prof Arian Il'ich Kuz'min, Doctor of Physicomathematical Sciences Prof Arnol'd Gennad'yevich Ludin, Doctor of Physicomathematical Sciences Yuriy Ivanovich Merzlyakov, Doctor of Chemical Sciences Yuriy Nikolayevich Molin, Doctor of Chemical Sciences Prof Marks Vasil'yevich Mokhosoyev, Doctor of Chemical Sciences Prof Boris Ivanovich Peshchevitskiy, Doctor of Technical Sciences Prof Gennadiy Innokent'yevich Razgil'deyev, Doctor of Physicomathematical Sciences Prof Yakov Davydovich Raykhbaum, Doctor of Physicomathematical Sciences Prof Yuriy Greigor'yevich Reshetnyak, Doctor of Physicomathematical Sciences Prof Boris Alekseyevich Rogozin, Doctor of Physicomathematical Sciences Dmitriy Dmitriyevich Ryutov, Doctor of Physicomathematical Sciences Vasil'yevich Serebryakov, Doctor of Technical Sciences Prof Boris Gavrilovich Tarasov, Doctor of Physicomathematical Sciences Prof Vladimir Mikhaylovich Titov, Doctor of Physicomathematical Sciences Yuriy Georgiyevich Shafter, and Doctor of Technical Sciences Prof Yevgeniy Ivanovich Shemyakin.

Signed by President of the USSR Academy of Sciences M. V. Keldysh and Acting Chief Scientific Secretary of the Presidium of the USSR Academy of Sciences Corresponding Member G. K. Skryabin.

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2. USSR

TASHLIYEV, A. O.

THE ACADEMY OF SCIENCES USSR AND ZOOLOGICAL SCIENCE IN TURKMENIA

Ashkhabad IZVESTIYA AKADEMI NAUK TURKMENSKOY SSR. SERIYA BIOLOGICHESKIKH NAUK in Russian No 1, 1974, pp 24-29

[Abstract] The complex and planned exploration of the trans-Caspian region was begun in the early 1920s when expeditions were organized to explore sulfur deposits in the Karakum area. As a result of this work a sulfur-producing plant was organized. Other expeditions were organized by the Academy of Sciences USSR to study flora and fauna of Turkmenia. The development of the economy and science, including zoological science, became particularly rapid after Turkmenia was transformed into the Turkmen SSR in 1924. A Commissariat of Health of Turkmenia was organized, contact with the Zoological Museum of the Academy of Sciences USSR was established, and a number of scientific expeditions to study fauna, particularly ticks and insects, were organized by the latter.

The rapidity with which zoological science developed in Turkmen SSR can be judged from the fact that during the initial years of Soviet rule the republic had one zoological establishment manned by 2-3 zoologists; it now has 18 higher scientific establishments with game reserves, chairs of zoology, parasitology and biology, 1/2

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TASHLIYEV, A. O., IZVESTIYA AKADEMII NAUK TURKMENSKOY SSSR, SERIYA BIOLOGICHESKIKH NAUK in Russian No 1, 1974, pp 24-29

and a number of experimental stations. Intense scientific research work with regard to the study of Turkmenian fauna is being carried by the Institute of Zoology of the Turkmen Academy of Sciences, Turkmen State University imeni A. M. Gor'kiy, the Turkmen Agricultural Institute imeni M. I. Kalinin, and other specialized institutes. Thanks to the wide network of zoological establishments the fauna of the republic has been thoroughly studied with the results of the studies recorded in a number of published works. Of particular interest was the development of a method of propagation of herbivora fish and their use for the melioration of water reservoirs. Important tasks, such as the control of plant pests, cotton pests in particular, control of termites, and development of biological means of control of the insects are confronting the entomologists and zoologists. In all of the zoological activities of the Turkmen scientists the Academy of Sciences USSR played an important role.

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Republics

3. USSR

GENERAL MEETING OF THE KAZAKH ACADEMY OF SCIENCES

Alma-Ata VESTNIK AKADEMII NAUK KAZAKHSKOY SSR in Russian No 4 Apr 74 pp 3-4

[Excerpts] On 15 April 1974, in the Great Conference Hall, the General Meeting was held of the Kazakh Academy of Sciences. In the work of the General Meeting participated Chairman of the Kazakh Council of Ministers B. A. Ashimov, Second Secretary of the Central Committee of the Kazakh Communist Party V. K. Mesyats, Secretary of the Central Committee of the Kazakh Communist Party S. N. Imashev, First Secretary of the Alma-Ata Oblast Committee of the Party A. A. Askarov, Deputy Chairmen of the Kazakh Council of Ministers K. B. Bilyalov and K. K. Ketebayev, the heads of Republic Ministries and Administrations, and outstanding scientists.

The Session was opened with a speech by Vice President of the Kazakh Academy of Sciences D. V. Sokol'skiy, who briefly characterized achievements of the past year in the development of basic scientific researches.

Vice President of the Kazakh Academy of Sciences Academician of the Kazakh Academy of Sciences A. N. Nusupbekov, on behalf of the Presidium of the Kazakh

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VESTNIK AKADEMII NAUK KAZAKHSKOY SSR in Russian No 4 Apr 74 pp 3-4

Academy of Sciences, presented diplomas to the laureates of the Prize imeni Ch. Ch. Valikhanov, Doctor of Historical Sciences R. Suleymenov for a monograph entitled "The Leninist Ideas of the Cultural Revolution and Their Realization in Kazakhstan (Historical Experience in the Development of Socialist Culture of Peoples which Passed the Stage of Capitalism)" and Doctor of Jurisprudence M. T. Baymakhanov for a monograph entitled "Contradictions in the Development of Legal Superstructure in Socialism."

Academician-Secretary of the Presidium of the Kazakh Academy of Sciences Academician of the Kazakh Academy of Sciences Zh. S. Yerzhanov presented a summary report on the activity of the Kazakh Academy of Sciences. (The text of the Report is published in this issue of the VESTNIK)....

The Session of the General Meeting unanimously adopted the resolution on the activity of the Kazakh Academy of Sciences for 1973. (The resolution of the General Meeting is published in the present issue of the VESTNIK).

Then, the General Meeting passed to the examination of organizational problems. Academician of the Kazakh Academy of Sciences Sh. Ye. Yesenov, in connection with his appointment to the post of the Minister of Geology Kazakh and taking into account 2/3

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VESTNIK AKADEMII NAUK KAZAKHSKOY SSR in Russian No 4, Apr 74 pp 3-4

his request, has been relieved from his duties as President and Member of the Presidium of the Kazakh Academy of Sciences.

As a result of secret balloting Academician of the Kazakh Academy of Sciences Doctor of Technical Sciences Prof Askar Minliakhmedovich Kunayev has been elected to the post of the President of the Academy of Sciences Kazakh SSR. President of the Kazakh Academy of Sciences Academician of the Kazakh Academy of Sciences A. M. Kunayev cordially thanked the General Meeting for the high confidence accorded to him and briefly characterized the great tasks which face the Kazakh Academy of Sciences.

A. M. Kunayev expressed his thanks to the Central Committee CPSU, the Presidium of the USSR Academy of Sciences, the Central Committee of the Kazakh Communist Party, the Council of Ministers of the Republic, and the members of the Kazakh Academy of Sciences for the confidence shown to him in connection with his election to the post of the President of the Kazakh Academy of Sciences, and assured all present at the General Meeting that he will exert all his forces and knowledge for the further development of science, expressing his confidence that the scientists too, will do their best for a further advance of the economy, science, and culture of Kazakhstan.

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II MEDICINE AND HEALTH

USSR

4. USSR

UDC 614.4+576.8+612.017.1]001.5(47+57)

SUMAROKOV, A. A., SALMIN, L. V., and NEPEDOVA, L. A., State Research Institute for the Standardization and Control of Biomedical Preparations imeni Tarasevich, Moscow

ACHIEVEMENTS AND CURRENT TASKS OF SOVIET EPIDEMIOLOGY, MICROBIOLOGY AND IMMUNOLOGY

Moscow ZHURNAL MIKROBIOLOGII EPIDEMIOLOGII I IMMUNOBIOLOGII in Russian No 5, 1974, pp 3-10

[Abstract] The historical decisions of the 24th CPSU Congress emphasized that the primary goal of the State is to significantly increase the material and cultural levels of the living conditions of the Soviet people. The past achievements of Soviet epidemiologists, microbiologists and immunologists are reflected in the virtual or complete eradication of many infectious diseases in the USSR, a decrease in the over-all incidence of infectious diseases, development of new antibiotics, and decrease in mortality from infectious diseases, all of which have significantly contributed to the well-being of the Soviet people. Current tasks are directed toward

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SUMAROKOV, A. A., et al., ZHURNAL MIKROBIOLOGII EPIDEMIOLOGII I IMMUNOBIOLOGII in Russian No 5, 1974, pp 3-10

improving further the public health situation in the USSR, and in extending research in the treatment and prophylaxis of infectious diseases, in elucidating the mechanisms of pathogenesis, and in furthering such fundamental studies as work on microbial genetics.

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5. USSR

CURRENT EVENTS

Moscow ZHURNAL MIKROBIOLOGII EPIDEMIOLOGII I IMMUNOBIOLOGII in Russian No 6, 1974,
p 153

[Text] The Ministry of Health USSR and the Executive Committee of the Red Cross and Red Crescent USSR have approved means for the institution of public sanitary inspectors in the existing sanitary control.

The existing working practice of the sanitary epidemiological services of the Ministries of the Health of the Soviet Republics indicate that public sanitary inspectors render a truly significant practical assistance to the sanitary-epidemiological stations in conducting preventive and sanitary-ameliorative measures.

At the present stage, in view with the plans for an increase level of state sanitary control, it is highly important that further development be assured of the democratic principles in the activity of the sanitary-epidemiological service. This is of the highest importance in the solution of such important problems as the sanitary protection of the external natural environment, antiepidemic measures, improvements in the working conditions of the workers, as well as improvements in the sanitary state of public nutrition and trade enterprises.

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ZHURNAL MIKROBIOLOGII EPIDEMIOLOGII I IMMUNOBIOLOGII in Russian No 6, 1974,
p 153

Furthermore, this document contains concrete plans which will put into effect the sanitary-epidemiological directives of the Ministries of the Soviet Republics, the committees of the Red Cross and the Red Crescent, and of the scientific research institutes.

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III ACTIVITIES OF SCIENTIFIC ORGANIZATIONS

6. USSR

BUNIN, S., TASS Correspondent

MYSTERIES OF LIGHT

Ashkhabad TURKMENSKAYA ISKRA in Russian 21 Sep 74 p 3

[Text] With the advent of lasers the science of optics underwent considerable changes. It was found that almost all laws of optics are approximate and are valid only at small light intensity. Thus, since Newton who discovered the law of light decomposition, it was considered that only a sunbeam which passes through a prism is refracted into its component parts. If, however, the light of a definite wave, for example, a blue one passed through it, no rainbow appeared and at the exit the color was the same.

The new effect of light scattering was discovered by scientists D. I. Klyshko, V. V. Fadeyev, and O. N. Chunayev of Moscow State University and by A. A. Grinbeg, N. I. Kramer, S. M. Ryvkin, N. M. Fishman, and I. D. Yaroshetskiy, of the Physico-technical Institute of the USSR Academy of Sciences (Leningrad). This discovery was registered on 19 September by the State Committee for Inventions and Discoveries of the USSR Council of Ministers.

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BUNIN, S., TURKMENSKAYA ISKRA in Russian 21 Sep 74 p 3

The scientists have established that if a laser ray of a definite color strikes the transparent bodies, for example, crystals, then at the exit one may record a whole range of most diverse light waves: from visible waves to infrared ones and even radio-range waves. Whereupon they emerge conically, each at its own angle, which is contrary to the classical law that "the angle of incidence is equal to the angle of reflection." A turn of the crystal alters the distribution of colors. The same effect have fluctuations of temperature and the influence of the electric field. The color cone will be likewise different for crystals with a different structure.

For all diversity of optical effects, this is actually caused by a single physical process. Any transparent medium, under the effect of the light that strikes it, begins to radiate its natural oscillations: the electrons become as though excited, and reradiate the received energy. If their oscillations take place in time with the wave that arrives, the frequency changes little. And this was difficult to discover.

This is the case when the wave energy is comparatively low. But at very strong signals, including laser signals, the electrons become engaged in a "creative work" --they generate their own radiation of a different intensity or frequency.

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BUNIN, S., TURKMENSKAYA ISKRA in Russian 21 Sep 74 p 3

One of the most important aspects of the application of the phenomenon being discovered is the enhancement of the effectiveness of lasers with changeover frequency. Their wide-scale use in the most diverse fields of science and national economy would be impossible if man would not learn to change the frequency of their radiations. To understand this, it is sufficient to imagine what would be the state of radio engineering if radio transmitters had to operate using but a few frequencies. As a matter of fact, lasers too, started to work with the use of rigidly determined frequencies. A wide range of their application has become possible thanks to the changeover of frequencies.

In all this the discovered phenomenon plays a great role inasmuch as in the laser devices the crystals are being used as specific regulators.

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7. USSR

EARTH AND SUN

Moscow PRAVDA in Russian 15 Sep 74 p 3

[Text] Associates of the Division of Heliophysics of the Physicotechnical Institute of the Uzbek Academy of Sciences are developing a new technique which operates on the principle of the utilization of solar energy. Other problems are being dealt with by the scientists of the Institute of Physics of Earth and Atmosphere of the Turkmen Academy of Sciences. They study the subsurface structure of the Earth's crust and its upper mantle, and physics of the upper atmosphere.

In the photographs: sun-operated "kitchens" developed by associates of the Division of Heliophysics, on the left; above, on the proving ground of ionospheric research in the village of Bikrov near Ashkhabad Candidate of Physicomathematical Sciences G. Dzhemilev and laboratory worker V. Shagiakhmedova are engaged in recording radio signals.

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8. USSR

VASIL'YEV, K. -- professor, and head of the Chair of Epidemiology of the Odessa Medical Institute

PUBLICATION THE BEST METHOD OF COMMUNICATION

Moscow MEDITSINSKAYA GAZETA in Russian 2 Oct 74 p 3

[Abstract] Any important discovery or invention in the sphere of science, and particularly in the sphere of medical sciences, is rarely an achievement of a single individual. For the most part it is preceded by intensive research activities and efforts of many individuals and in some cases even generations of scientists, accumulation of facts obtained in experiments and observations, and analysis and grouping of facts. In this respect it may be said that the final discovery is a result of cooperative efforts, although this does not mean that the scientist who makes the discovery is to be denied credit for his achievement. However, the scientist in the course of his work on his project is ever in need of discussion and exchange of opinion with regard to his work, and must seek the advice, suggestions, and criticism of other scientists some whom may be engaged in the search for the same objective. Publication, whether in the form of a lecture, report presented at a conference, article, or monograph is the best and most dependable method of communication between scientists, for there is no other way that the researcher can communicate with the

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VASIL'YEV, K., MEDITSINSKAYA GAZETA in Russian 2 Oct 74 p 3

large number of scientists who may be interested in the course and progress of the project. The same applies to the development of a new preparation, method, or instrument, for the final acceptance of either one of them depends on the discussion of its merits, experimental testing, and published information with regard to the results of the tests. Because these days scientific research is being conducted on interrepublican and international scales, publication as a means of communication between scientists has acquired even greater importance.

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IV CRITICISM AND COMMENTARY

9. USSR

UDC 615.47:62(47+57):347.77(47-87)

ABRAMOV, B. V., Ministry of Medical Industry

EXPERIENCES IN SELLING PATENT RIGHTS ABROAD

Moscow MEDITSINSKAYA TEKHNICA in Russian No 2, 1974 pp 30-34

Abstract: The directives of the 24th CPSU Conference for the 1971-1975 five-year national economic plan specify an increase in patent activity and patent information. The goal of foreign patent activity is additional economic gain through establishing sound prices for the patented items or sale of the right to production of the item. The inventor's responsibility for his work must be firmly established. Examples of foreign patents for medical apparatus are given. It is shown that the work involved in applying for the patents through the appropriate organization should be expedited. Some problems of foreign patents are enumerated. For example, past inventions have been changed slightly and manufactured in foreign countries with a complete loss of patent rights for the inventor. Patents for parts of anesthetic devices were not profitable because they were lesser parts of a larger apparatus. Recently devices for electrosleep and electronarcosis have drawn the attention of foreign markets. Here patent rights have been successfully established. Other successes in medical technology are surgical suturing devices and prostheses with bioelectric control.

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ABRAMOV, B. V., MEDITSINSKAYA TEKHNICA in Russian No 2, 1974 pp 30-34

Lastly, recommendations for items not suitable for foreign patents are noted: small parts of larger instruments patented by rival firms; items with limited use; and items already perfected in foreign countries.

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V AWARDS, CONTESTS, APPOINTMENTS, AND PERSONALITIES

10. USSR

V. A. ENGEL'GARDT

Moscow VEDOMOSTI VERKHOVNOGO SOVETA SSSR in Russian 11 Dec 74 p 1008

[Text] Decree of the Presidium of the Supreme Soviet USSR on awarding Academician V. A. Engel'gardt the Order of Lenin.

For great service in the development of biological sciences and in connection with his 80th birthday Vladimir Aleksandrovich Engel'gardt is awarded the Order of Lenin.

Signed by Chairman of the Presidium of the Supreme Soviet USSR N. Podgornyy and Secretary of the Presidium of the Supreme Soviet USSR M. Georgadze in Moscow, the Kremlin, 3 December 1974.

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11. USSR

R. Ye. KAVETSKIY

Moscow MEDITSINSKAYA GAZETA in Russian 4 Dec 74 p 1

[Text] Decree of the Presidium of the Supreme Soviet USSR on awarding the Order of the October Revolution to Academician of the Ukrainian Academy of Sciences R. Ye. Kavetskiy.

Academician of the Ukrainian Academy of Sciences Rostislav Yevgen'yevich Kavetskiy is awarded the Order of the October Revolution for service in the development of medical sciences and the preparation of cadres.

Signed by Chairman of the Presidium of the Supreme Soviet USSR N. Podgornyy and Secretary of the Presidium of the Supreme Soviet USSR M. Georgadze in Moscow, the Kremlin, on 29 November 1974.

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12. USSR

KH. M. KHABERMAN

Moscow VEDOMOSTI VERKHOVNOGO SOVETA SSSR in Russian 25 Dec 74 p 1048

[Text] Decree of the Presidium of the Supreme Soviet USSR on awarding Academician of the Estonian Academy of Sciences Kh. M. Khaberman the Order of the October Revolution.

Academician of the Estonian Academy of Sciences Kharal'd Martovich Khaberman has been awarded the Order of the October Revolution for his service in the biological sciences, active social activity, and in connection with his 70th birthday.

Signed by Chairman of the Presidium of the Supreme Soviet USSR M. Podgornyy and Secretary of the Presidium of the Supreme Soviet USSR M. Georgadze in Moscow, the Kremlin, on 17 December 1974.

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13. USSR

E. M. KHALIMOV

Moscow VEDOMOSTI VERKHOVNOGO SOVETA RSFSR in Russian 12 Dec 74 p 903

[Abstract] Prof Elik Mazitovich Khalimov, Doctor of Geological-Mineralogical Sciences and deputy director of the Bashkir State Scientific Research and Design Institute of the Petroleum Industry, was awarded the title Honored Scientist RSFSR.

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14. USSR

V. G. KIRILLOV-UGRYUMOV

Moscow PRAVDA in Russian 3 Dec 74 p 6

[Text] The Council of Ministers USSR have named Doctor of Physicomathematical Sciences Prof Viktor Grigor'yevich Kirillov-Ugryumov, who is presently working as rector of the Moscow Engineering-Physics Institute, as chairman of the Higher Attestation Commission (VAK) under the Council of Ministers USSR.

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15. USSR

V. M. LATYSH

Moscow VEDOMOSTI VERKHOVNOGO SOVETA RSFSR in Russian 28 Nov 74 p 873

[Text] Decree of the Presidium of the Supreme Soviet RSFSR on awarding the title Honored Geologist RSFSR to V. M. Latysh.

For service in geology and petroleum mining the title Honored Geologist RSFSR is awarded to Valentin Mefodiyevich Latysh, head of the Bashkir Territorial Geological Administration of the Ministry of Geology RSFSR.

Signed by Chairman of the Presidium of the Supreme Soviet RSFSR M. Yasnov and Secretary of the Presidium of the Supreme Soviet Kh. Neshkov in Moscow on 25 November 1974.

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10. USSR

T. P. MAKARENKO

Moscow VEDOMOSTI VERKHOVNOGO SOVETA RSFSR in Russian 12 Dec 74 p 904

[Abstract] Prof Timofey Pavlovich Makarenko, Doctor of Medical Sciences and head of a chair of the Central Institute for the Advanced Training of Physicians of the Ministry of Health USSR, has received the title Honored Scientist RSFSR.

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17. USSR

A. D. MAKAROV

Moscow VEDOMOSTI VERKHOVNOGO SOVETA RSFSR in Russian 12 Dec 74 p 903

[Abstract] Aleksey Dmitriyevich Makarov, Doctor of Technical Sciences, professor, and prorector of the Ufa Aviation Institute imeni Sergey Ordzhonikidze, was awarded the title Honored Scientist RSFSR.

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18. USSR

A. F. NAZARCHIK

Moscow VEDOMOSTI VERKHOVNOGO SOVETA RSFSR in Russian 19 Dec 74 p 917

[Text] Decree of the Presidium of the Supreme Soviet RSFSR on awarding the title Honored Scientist and Technician RSFSR to A. F. Nazarchik,

The title Honored Scientist and Technician RSFSR has been awarded to Aleksandr Fedorovich Nazarchik, Doctor of Technical Sciences, professor, and head of a laboratory of the Institute of the Physics of the Earth imeni O. Yu. Shmidt of the USSR Academy of Sciences, for his service in the development of methods for underground mining of ore deposits and preparation of scientific cadres.

Signed by Chairman of the Presidium of the Supreme Soviet RSFSR M. Yasnov and Secretary of the Presidium of the Supreme Soviet RSFSR Kh. Neshkov in Moscow on 12 December 1974.

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19. USSR

P. A. VERSHILOVA

Moscow VEDOMOSTI VERKHOVNOGO SOVETA SSSR in Russian 18 Dec 74 p 1023

[Text] Decree of the Presidium of the Supreme Soviet USSR on awarding the Order of Lenin to Academician of the USSR Academy of Medical Sciences P. A. Vershilova.

For great service in the development of medical sciences and the preparation of cadres and in connection with her 70th birthday, Pelageya Al'bertovna Vershilova is awarded the Order of Lenin.

Signed in Moscow, the Kremlin, on 12 December 1974 by Chairman of the Presidium of the Supreme Soviet USSR N. Podgornyy and Secretary of the Presidium of the Supreme Soviet USSR M. Georgadze.

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PPD:SOVIET SCIENCE

20. USSR

HONORARY AWARDS

Moscow MEDITSINSKAYA GAZETA in Russian 31 Dec 74 p 1

[Text] By decree of the Presidium of the Supreme Soviet Kazakh SSR for service in public health, the title Honored Physician Kazakh SSR is awarded to K. Kalzhigitov, head of the Gur'yevskaya Oblast Department of Public Health; N. I. Morozova, obstetrician-gynecologist of Gur'yevskaya Oblast Hospital; N. I. Tynybayeva, chief physician of Karashalginskiy Sector Hospital in Kurgal'dzhinskiy Rayon of Tselinogradskaya Oblast; and N. I. Tsay, chief physician of the Tselinograd Maternity Home.

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FPD:SOVIET SCIENCE

VI OBITUARIES OF SOVIET SCIENTISTS

21. USSR

UDC 616.5+616.97+61(092.1)

A. A. AKOVBYAN

Tashkent MEDITSINSKAYA ZHURNAL UZBEKISTANA in Russian No 7, 1974 pp 116-117

[Abstract] Prof Armais Aristogesovich Akovbyan, Doctor of Medical Sciences, Honored Scientist Uzbek SSR, and former head of a chair of the Tashkent Medical Institute, died on 18 April 1974.

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22. USSR

UDC 91 : 92

L. A. DEMIN

Leningrad IZVESTIYA VSESoyuznogo GEOGRAFICHESKOGO OBSHCHESTVA in Russian Vol 106 No 5, 1974 p 444

[Abstract] Leonid Aleksandrovich Demin, member of the Geographical Society USSR, member of the Presidium and Scientific Council, professor, and Doctor of Geographical Sciences, died on 4 December 1973.

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FPD:SOVIET SCIENCE

23. USSR

UDC 616-073.75(092)Kvaliashvili

A. A. KVALIASHVILI

Moscow VESTNIK RENTGENOLOGII I RADIOLOGII in Russian No 4, 1974 p 105

[Abstract] Prof Aleksandr Archilovich Kvaliashvili, Doctor of Medical Sciences and scientific consultant of the Chair of Roentgenology of the Tbilisi Medical Institute, died during February 1974. His obituary is signed by the Boards of the All-Union and Georgian Scientific Societies of Roentgenologists and Radiologists and the Tbilisi Medical Institute.

1/1

24. USSR

P. V. MANENKOV

Kazan' KAZANSKIY MEDITSINSKIY ZHURNAL in Russian No 2, 1974 p 93

[Abstract] Pavel Vasil'yevich Manenkov, Honored Scientist Tatar ASSR, Doctor of Medical Sciences, and professor at the Kazan' Medical Institute, died on 27 January 1974.

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FPD:SOVIET SCIENCE

25. USSR

UDC 616-091(092)Nodov

A. I. Nodov

Moscow ARKHIV PATOLOGII in Russian, No 11, 1974 p 93

[Abstract] Prof Abram Iosifovich Nodov, CPSU member, pathologist, and Doctor of Medical Sciences, died on 24 March 1974 of myocardial infarction.

1/1

26. USSR

UDC 616-073.75(092)Osetinskiy

T. G. OSETINSKIY

Moscow VESTNIK RENTGENOLOGII I RADIOLOGII in Russian No 4, 1974 pp 104-105

[Abstract] Prof Tomas Grigor'yevich Osetinskiy, Doctor of Medical Sciences and leader of the Roentgenological Sector of the Krivoy Rog Scientific Research Institute of Labor Hygiene and Occupational Diseases, died on 20 January 1974. His obituary is signed by the Krivoy Rog Scientific Research Institute of Labor Hygiene and Occupational Diseases and the Krivoy Rog City Scientific Society of Roentgenologists and Radiologists.

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FPD:SOVIET SCIENCE

27. USSR

P. N. SUBBOTIN

Moscow GIGIYENA I SANITARIYA in Russian No 2, 1974, p 124

[Abstract] Prof Filipp Nikanorovich Subbotin, Doctor of Medical Sciences and former head of the Chair of General Hygiene of the Leningrad Sanitary and Hygienic Medical Institute, died on 29 July 1973. His obituary is signed by the Board of the All-Union Scientific Society of Hygienists and Sanitary Physicians, the Board of the All-Russian Scientific Society of Hygienists and Sanitary Physicians, the Leningrad City and Oblast Divisions of the All-Russian Scientific Society of Hygienists and Sanitary Physicians, the Leningrad Sanitary and Hygienic Medical Institute, the Chair of General and Military Hygiene of the Military-Medical Academy imeni S. M. Kirov, the Leningrad Oblast and City Sanitary-Epidemiological Station, and the editorial staff of "Gigiyena i Sanitariya."

1/1

28. USSR

IDC 616-053.2(092) Titova

A. I. TITOVA

Moscow PEDIATRIYA in Russian No 12, 1974 pp 71-72

[Abstract] Prof Aleksandra Ivanovna Titova, head of the Chair of Childrens' Diseases of the Yaroslavl' Medical Institute and Honored Scientist RSFSR, died on 10 August 1974.

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31

FPD:SOVIET SCIENCE

29. USSR

UDC 616-073.75(092)Vakhtel'

V. S. VAKHTEL'

Moscow VESTNIK RENTGENOLOGII I RADIOLOGII in Russian No 4, 1974 p 106

[Abstract] Prof Vladimir Semenovich Vakhtel', head of the Chair of Roentgenology and Radiology of the Military-Medical Academy imeni S. M. Kirov, died during March 1974. His obituary is signed by the Boards of the All-Union and All-Russian Scientific Societies of Roentgenologists and Radiologists and the collective of the Chair of Roentgenology and Radiology of the Military-Medical Academy imeni S. M. Kirov.

1/1

30. USSR

Z. V. YERMOL'YEVA

Moscow MEDITSINSKAYA GAZETA in Russian 4 Dec 74 p 4

[Abstract] The 2 December 1974 death of Prof Zinaida Vissarionovna Yermol'yeva, Academician of the USSR Academy of Medical Sciences, State Prize laureate, Honored Scientist RSFSR, head of the Chair of Microbiology of the Central Order of Lenin Institute for the Advanced Training of Physicians, leader of the Laboratory of Infectious Pathology of the Institute of the Morphology of Man of the USSR Academy of Sciences, and creator of the first Soviet penicillin, was announced by the Ministry of Health USSR, the Central Committee of Professional Trade Unions of Medical Workers, the Academy of Medical Sciences USSR, the Central Order of Lenin Institute for the Advanced Training of Physicians, the Institute of the Morphology of Man of the USSR Academy of Medical Sciences, and the All-Union Society of Microbiologists and Epidemiologists.

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FPD:SOVIET SCIENCE

VII FOREIGN SCIENTIFIC COOPERATION

31. USSR

UDC 615.47:001.83(103)

COOPERATION OF THE CMEA COUNTRIES IN MEDICAL TECHNOLOGY

Moscow MEDITSINSKAYA TEKHNIKA in Russian No 2, 1974 pp 5-9

[Abstract] An exchange of medical research information has developed among several countries: the USSR, Czechoslovakia, the German Democratic Republic, Hungary and Bulgaria. Variations in terminology, methods and standards have hindered the exchange, but a program in the Council for Mutual Economic Aid countries has led to successful results overall--specialization in biomedical methods and apparatus and a coordinating center for exchange of information as well as a centralization of administration of medical cooperation. A Working Group of Medical Technology was formed. An integrated system of specialized technical journals was proposed, which would further develop international cooperation in medical technology. Publications with a wider scope for more workers in medicine in addition to publications for narrow specialties are recommended. Articles informing readers of economics, organizational aspects, associations, and enterprises of medical technology are proposed.

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32. USSR

LATINFORM [Latvian News Agency]

BULGARIAN PHYSICIANS VISIT LATVIA

Riga SOVETSKAYA LATVIYA in Russian 2 Oct 74 p 3

[Text] On 1 October 1974 a delegation of Bulgarian Physicians, headed by the Minister of Health of the Bulgarian People's Republic, ended its visit to Soviet Latvia. During the week they spent here, the guests familiarized themselves with the therapeutic-prophylactic work and organization of the health service in the Republic. They visited a number of hospitals, polyclinics, and scientific research institutes, viewed the new projects, and visited the Museum of Medicine imeni P. Stradyn'. Summing up the results of their visit, Bulgarian Minister of Health Angel Todorov, in an interview with the Correspondent of LATINFORM, stated:

"The public health of the USSR and Bulgaria is based on the same principles and therefore has much in common. The real care of people unites us. However, both in the Soviet Union and in the Bulgarian People's Republic their own specific experience has been accumulated and thus various forms of work are being practiced. In connection with this it should be noted that the stay of our delegation in the Latvian SSR has been exceptionally useful and fruitful. On the example of one of

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USSR

SOVETSKAYA LATVIYA in Russian 2 Oct 74 p 3

the union republics we could see for ourselves what enormous successes were achieved by the Soviet medical science and practice.

"From what we have seen, I would like, in the first place, to note the well thought out organization of the work of physicians. Our Latvian colleagues have already made long-standing efforts in this direction and succeeded, in our opinion, to work out a very successful model.

"We have acquainted ourselves with specialized medical centers which serve as therapeutic hospitals and at the same time perform a large-scale scientific research and methodical work. This proves to be fully justified.

"The scientists of the Soviet Latvia and Bulgarian People's Republic fruitfully cooperate in certain fields of great importance to medicine. An obvious example of this is the automated system of cytological diagnosis of the cancer, developed jointly by the workers of the Institute of Electronics and Computer Technology of the Latvian Academy of Sciences and the Institute of Technical Cybernetics of the Bulgarian Academy of Sciences. This system was awarded a Gold Medal at the Plovdiv International Fair of 1974.

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USSR

SOVETSKAYA LATVIYA in Russian 2 Oct 74 p 3

"During the delegation's stay in Soviet Latvia perspectives were discussed for further strengthening and development of existing relations. All this answers the common aims pursued by the public health of the fraternal socialist countries."

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FPD: SOVIET SCIENCES

VIII NEW ORGANIZATIONS

33. USSR

KIRYASOV, V., correspondent of Pravda

NEW SCIENTIFIC RESEARCH INSTITUTE OF GRAIN ECONOMY

Moscow PRAVDA in Russian 31 Oct 74 p 6

[Text] In the Oblast center of the Trans-Urals, a new Scientific Research Institute of Grain Economy was opened.

Rich traditions and experience of Kurgan grain growers have since long served as example to neighbors. The Institute will be engaged in working out an improvement of the system of land cultivation, including problems of the application of fertilizers, protection of the soil against erosion, selection and seed growing, and problems of the increase in the effectiveness of the management of agriculture of the zone.

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34. USSR

KUTAISI POLYTECHNICAL INSTITUTE

Moscow, Byulleten' Ministerstva Vysshego i Srednego Spetsial'nogo Obrazovaniya SSSR, No 3, March 1974, p 3

[Text] Order of the Minister of Higher and Secondary Specialized Education of the USSR, No 766 of 27 September 1973.

I announce the Decree of the Council of Ministers USSR of 24 September 1973, No 700, Moscow, the Kremlin

The USSR Council of Ministers decrees:

To accept the motion of the Central Committee of the Communist Party of Georgia and the Georgian Council of Ministers, co-ordinated with USSR State Planning Committee (Gosplan), USSR Ministry of Higher and Secondary Specialized Education, and USSR Ministry of Finance, on the organization in 1974 in the city of Kutaisi of the Polytechnical Institute of the Georgian Ministry of Higher and Secondary Specialized Education, based on the Faculty of the Georgian Polytechnical Institute in the city of Kutaisi.

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BYULLETEN' MINISTERSTVA VYSSHEGO I SREDNEGO SPETSIAL'NOGO OBRAZOVANIYA SSSR, No 3,
March 1974, p 3

Signed by Deputy Chairman of USSR Council of Ministers K. Mazurov and Business
Manager of USSR Council of Ministers M. Smirtyukov.

In pursuance of the above decree of the USSR Council of Ministers, I order:

1. The Georgian Ministry of Higher and Secondary Specialized Education to
submit for consideration of the USSR Ministry of Higher and Secondary Specialized
Education a list of specialties in which the training will be carried out at the
Kutaisi Polytechnical Institute.

2. The Planning and Finance Administration (Comrade Chuprunov D. I.) and the
Educational and Methodical Administration for Higher Education (Comrade Bogomolov
A. I.):

to examine and prepare conclusions relative to the list of specialties of the
Kutaisi Polytechnical Institute; and

to supplement title lists of higher educational institutions.

Signed by V. P. Yelyutin

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31 Dec 74

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IX CONFERENCES

35. USSR

TSAREGOROTSEV, G., Professor

MEDICINE AND SOCIOLOGY

Moscow, MEDITSINSKAYA GAZETA in Russian, 2 Oct 74, p 4

[Abstract] The Eighth World Sociological Congress dedicated to the theme "Science and the Revolution in Modern Societies," was held in Toronto, Canada. Such problems as the social aspects of the scientific-technical revolution, role of sociology in modern society, and demographic processes and ecological changes taking place in modern society were discussed. The treatment of these problems depended on the World outlook of the delegates with the Marxists stressing the Marxist point of view. Considerable time was given to the discussion of the importance of human physical and mental health to the efficient and most beneficial operations of a social order, and that medicine and psychiatry therefore must be socially oriented, for the scientific-technical revolution which has transformed science and technology into productive forces is making ever greater demands on human inner resources. The availability of medical assistance and human health in totality are expressions of the character of the social-political order of a society, its ruling ideology, and its interhuman relations.

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USSR

TSAREGOROTSEV, G., MEDITSINSKAYA GAZETA in Russian, 2 Oct 74 p 4

Two points of view were expressed in discussions concerning the ecology problem: the Marxist which contends that human interests, health, and well-being can best be served by the radical transformation of a social order, and the bourgeois scientists maintaining the ecology problem can best be solved by the adoption of technical, technological, and sanitary measures. It was the Marxist contention that science itself provides the possibility for the solution of the ecology problem, but that its application for maximum results is possible only under conditions of Socialism. The demographic problem was also discussed from two positions, with the Marxists maintaining that the demographic policy of a state is a part of the state's general policy, and that the separation of demographic processes from social conditions as practiced in capitalist countries is characteristic of the classical Malthusian philosophy. They denied the Western allegations that the Soviet Union always, regardless of conditions, advocated a high birth rate, and criticized the scientists of the West who spoke of a coming demographic inundation, without taking into consideration the possible future changes in the economic, social, and ideological modes of life. A working scientific group to deal with the problem of "Society and Human Health," was organized, with a Soviet scientist as its head.

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36. USSR

ETA [Estonian News Agency]

EPIDEMIOLOGY OF BREAST CANCER IS DISCUSSED

Tallin SOVETSKAYA ESTONIYA in Russian 18 Oct 74 p 3

[Text] A meeting of the Commission for the Epidemiology of Malignant Tumors of the USSR Academy of Medical Sciences, which ended on 16 October 1974 in Tallin, was devoted to the problems of epidemiology of the cancer of the mammary gland.

It is not by mere chance that the capital of our Republic was chosen as a place to hold this Session. For eight years specialists of the Institute of Experimental and Clinical Medicine of the Estonian Ministry of Health have been coordinating the research in this problem of the scientists of the entire country. Here are being generalized the results of the work of many of the largest scientific centers and are being worked out common methods for the early diagnosis and prophylaxis of this disease.

The results of this activity received a positive appraisal from the members of this Commission, whose meeting was headed by its chairman and chief oncologist of the USSR Ministry of Health Prof A. Chaklin. It was decided that the works discussed

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USSR

SOVETSKAYA ESTONIYA in Russian 18 Oct 74 p 3

will form the foundation of the proposals on the Soviet part in a discussion of the methods for joint researches by the scientists of the USSR and the United States, which are contemplated by a recently signed agreement on the cooperation of oncologists of the two countries.

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37. USSR

ALL-UNION CONGRESS OF NEPHROLOGISTS

Moscow MEDITSINSKAYA GAZETA in Russian 2 Oct 74 p 1

[Text] The First All-Union Congress of Nephrologists began its work in Minsk yesterday. About 600 people--scientists, public health organizers, practicing physicians from different cities of the Soviet Union, and scientists from a number of foreign countries are taking part in the work of the conference.

Problems connected with the organization of nephrological service and perspectives for its improvement were discussed by the participants in the conference on the first day. Reports concerning experience gained with respect to out-patients service and the rendering of assistance to nephrological patients in some of the republics and different therapeutic-prophylactic establishments of the country were heard.

Considerable time is given to the discussion of modern nosological, morpho-functional, and other aspects of the study of the clinical course of renal diseases. About 20 papers are dedicated to this problem.

Such urgent problems as immunonephrology, renal diseases in systemic and common diseases, pyelonephritis, and treatment of nephritis are included in the agenda of the day of subsequent meetings.
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38. USSR

ARMEN PRESS [Armenian News Agency]

APPROACHES TO UNDERSTANDING THE MYSTERIES OF LIFE

Yerevan KOMMUNIST in Russian 15 Oct 74 p 4

[Text] The Second Congress of Armenian Physiologists held in Yerevan has ended. At the request of the correspondent of Armen Press its work was commented upon by the outstanding Soviet scientist, laureate of the Prize imeni I. Pavlov and L. Orbeli, Deputy Director of the Institute of Evolutional Physiology and Biochemistry imeni I. M. Sechenov of the USSR Academy of Sciences, and Corresponding Member of the USSR Academy of Sciences, A. Karapyan.

In the Soviet Union during the past fifteen years physiologists have made considerable advances thanks to high level laboratory experiments. The application of new mathematical, physical and other methods suggested by exact sciences has contributed to the development of the planned studies and permitted us to penetrate deeper into the mysteries of memory and evolution of the organism.

The Armenian scientists have always ranked first among Soviet physiologists. The Republic is frequently selected as a place for holding the all-union symposiums and
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KOMMUNIST in Russian 15 Oct 74 p 4

conferences. The Institute of Physiology imeni L. A. Orbeli of the Armenian Academy of Sciences is a leading center of the country for the study of physiology of the autonomic nervous system and physiology of the cerebellum. The foundations of these investigations were led by the outstanding Soviet scientist after whom the Institute was named.

In using electrophysiological and pharmacological methods the scientists are successfully studying structural and functional organization of higher autonomic centers which control the entire internal and emotional activity of the organism. This work is being conducted jointly with specialists of the German Democratic Republic and Hungary. Toward the elaboration of this problem a contribution was also made by the workers of the Yerevan Zooveterinary Institute and the Sector of Radiobiology of the Ministry of Health of the Republic.

Investigations on the second problem encompass a complex of questions, viz, what role is being played by the cerebellum in the motor activity and in the behavior of animals, and what is its anatomical and physiological organization. The role of the cerebellum in autonomic functions is also being studied in the Yerevan Medical Institute. Recently in Armenia was created a laboratory to study problems of the evolution of the central nervous system. Here are investigated problems of the

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USSR

KOMMUNIST in Russian 15 Oct 74 p 4

appearance and development of higher regulating functions of the brain, which will make it possible to decipher the finest mechanisms of its coordination activity.

Of practical benefit to clinicians are successful experiments with biologically active substances used upon various affections of the portions of the central nervous system, for instance of the spinal cord.

The scientists of the Republic have also ascertained the mechanism regulating the activity of the so-called smooth muscles.

Of great importance for the national economy are elaborations of the Laboratory of Physiology of Agricultural Animals.

A talk at our Congress about this work of Armenian physiologists showed that investigations conducted in Armenia form an important part of the entire Soviet physiological science progressing toward constant study of the mysteries of life. The specialists of the Republic have unquestionably good prospects for obtaining new scientific and practical results.

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KOMMUNIST in Russian 15 Oct 74 p 4

The Congress held elections for leading organs of the Armenian Physiological Society. Academician of the Armenian Academy of Sciences S. Karapetyan was re-elected chairman of the Presidium of the Board.

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39. USSR

ARMEN PRESS [Armenian News Agency]

SCIENTIFIC SESSION ON RHEUMATOLOGY

Yerevan KOMMUNIST in Russian 15 Oct 74 p 4

[Text] A scientific session of rheumatologists was held in Yerevan on the initiative of the Institute of Rheumatism of the USSR Academy of Medical Sciences and the Chair of Pathological Anatomy of the Yerevan Medical Institute. Well-known specialists of the country and workers of medical institutions of Armenia took part in its work.

Reports on the diagnosis of rheumatic diseases, on the mechanism of its development and problems of its treatment were delivered at this session. The authors were Corresponding Members of the USSR Academy of Medical Sciences V. Nosonova, Ye. Maksakova, V. Pavlov, and A. Beglaryan and Candidates of Medical Sciences I. Bronzov, N. Kuz'mina, and A. Speranskiy.

The participants of the scientific session visited hospitals of Yerevan and rendered practical help to their Armenian colleagues.

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USSR

KOMMUNIST in Russian 15 Oct 74 p 4

The scientific session was of practical and theoretical importance to rheumatologists of Armenia, State of the chairman of the Organizational Committee, head of the Chair of Pathological Anatomy of the Yerevan Medical Institute, and Doctor, Prof A. Beglaryan to our correspondent. Information was obtained on many methods of treatment which were suggested by the researchers of the Institute of Rheumatism, one of the well-known medical institutions of the country.

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40. USSR

BELTA [Belorussian News Agency]

CONFERENCE OF NEUROPATHOLOGISTS AND PSYCHIATRISTS

Minsk SOVETSKAYA BELORUSSIYA in Russian 13 Oct 74 p 3

[Excerpt] The state and prospects of the development of psychoneurological aid to the population was discussed by the delegates of the First Republic Conference of Neuropathologists and Psychiatrists which ended on 11 October 1974 in Minsk.

The Belorussian physicians have worked out a number of topical problems of diagnosis and treatment of some diseases of the brain, multiple sclerosis, and other diseases of the nervous system. Close attention was paid to the prophylaxis of the children's neuropathology.

In a resolution adopted by the Conference the ways of further development and improvement of the psychoneurological service of the Republic were mapped out.

The delegates of the Conference, the medical community of the Capital, and guests from fraternal republics took part in a Gala Session devoted to the 50th anniversary of the Belorussian Scientific Research Institute of Neurology, Neurosurgery, and

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USSR

SOVETSKAYA BELORUSSIYA in Russian 13 Oct 74 p 3

Physiotherapy. Secretary of the Presidium of the Belorussian Supreme Soviet Ye. P. Chagina presented the Institute with a honorary diploma of the Belorussian Supreme Soviet in recognition of its services in training cadres and developing public health and medical sciences, and in connection with its 50th anniversary....

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41. USSR

CONGRESS OF PHTHYSIOLOGISTS

Moscow MEDITSINSKAYA GAZETA in Russian 2 Oct 74 p 1

[Text] The Fourth Congress of RSFSR Phthisiologists began its work in Rostov-na-Donu. The participants in the Congress are discussing problems concerning the organization of antitubercular assistance and tasks with regard to its further improvement in the RSFSR. Considerable time will be given to the examination of the different aspects of the improvement of the efficacy of the treatment of tubercular patients.

Such problems as out-patient service to the people, epidemiology of tuberculosis, treatment of the different forms of the disease, prophylaxis of tuberculosis, and others are on the agenda of the forum of the phthisiologists.

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X EDUCATION

42. USSR

KRASNOV, N. P., Deputy Minister of Higher and Specialized Secondary Education USSR

ORGANIZATION OF A SCIENTIFIC-METHODOLOGY COMMISSION FOR ENVIRONMENTAL PROTECTION AND FOR EFFECTIVE UTILIZATION OF NATURAL RESOURCES (MINISTERIAL ORDER NO. 606, 24 July 1973)

Moscow BYULLETEN' MINISTERSTVA VYSSHEGO I SREDNEGO SPETSIAL'NOGO OBRAZOVANIYA SSSR in Russian No 10 Oct 1973 p 12

[Text] To advance the solution of scientific-methodological problems of training specialists in environmental protection and the effective utilization of natural resources, I hereby order the following:

1. The organization, under the Scientific-Methodology Administration for Higher Education, of a scientific-methodology commission for environmental protection and the rational utilization of natural resources (supplement); and

2. The delegation of the following tasks and functions to the said commission:

a) the preparation of recommendations for the content of academic programs and
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KRASNOV, N. P., BYULLETEN' MINISTERSTVA VYSSHEGO I SREDNEGO SPETSIAL'NOGO OBRAZOVANIYA SSSR in Russian No 10 Oct 1973 p 12

for the improvement in the teaching of the principles of nature study, environmental protection and the effective utilization of natural resources, such improvement to be incorporated both in academic and in industrial practice;

b) study and generalization of the experience thus far gained in the dissemination of such principles, and also assistance to higher educational institutions in conducting educational work in the areas in question;

c) presentation of recommendations, on the basis of author or collective, for the compilation of textbooks and manuals on environmental protection and the effective utilization of natural resources;

d) examination of textbook manuscripts and manuals on these subjects and preparation of recommendations for their publication; and

e) direction, on an established schedule, of periodic scientific-methodological conferences and seminars dealing with improvement of specialist training in the fields of environmental protection and the effective utilization of natural resources.

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FPD: SOVIET SCIENCES

43. USSR

YUDIN, V. A., Deputy Chief of the Academic-Methodological Administration for Higher Education

MEMBERSHIP OF THE SCIENTIFIC-METHODOLOGY COMMISSION FOR ENVIRONMENTAL PROTECTION AND THE EFFECTIVE UTILIZATION OF NATURAL RESOURCES (SUPPLEMENT TO ORDER No 606, July 1973)

Moscow BYULLETEN' MINISTERSTVA VYSSHEGO I SREDNEGO SPETSIAL'NOGO OBRAZOVANIYA SSSR in Russian No 10 Oct 73 p 13

[Text] 1. SERGEY STEPANOVICH SOBCZEV (chairman), Academician, All-Union Academy of Agricultural Sciences, Moscow Wood Technology Institute (professor and head of the Chair of Soil-Science);

2. SERGEY VASIL'YEVICH YAKOVLEV (deputy chairman), Doctor of Technical Sciences;

3. VASILIIY VLADIMIROVICH GRUZDEV (secretary), Candidate of Biological Sciences, senior scientific associate at Moscow State University;

4. MARK BORISOVICH RAVICH, Doctor of Technical Sciences, professor at the Moscow Institute of the Petrochemical and Gas Industry;

5. NIKOLAY ALEKSEYEVICH GLADKOV, Doctor of Biological Sciences, professor at Moscow State University;

6. BODO GERMANOVICH IOGANZEN, Doctor of Biological Sciences, professor at the Tomsk Pedagogical Institute;

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USSR

YUDIN, V. A., BYULLETEN' MINISTERSTVA VYSSHEGO I SREDNEGO SPETSIAL'NOGO OBRAZOVANIYA SSSR in Russian No 10 Oct 73 p 13

7. VASILIIY NIKOLAYEVICH SKALON, Doctor of Biological Sciences, professor at the Irkutsk Agricultural Institute;

8. ALEKSANDRA ALEKSANDROVNA MAKUNINA, Doctor of Geographical Sciences, docent of the Chair of Physical Geography of the USSR, Moscow State University;

9. OLEG STEPANOVICH KOLBASOV, Doctor of Jurisdictional Sciences, head of the Sector of Legal Problems of Protecting the Surroundings of the Scientific Research Institute of State and Law of the USSR Academy of Sciences;

10. FAINA IVANOVNA DUBROVSKAYA, Candidate of Medical Sciences;

11. ANDREY ANDREYEVICH KHIZHNYAK, Candidate of Geographical Science, docent of the Belgorod Pedagogical Institute;

12. NIKOLAY ALEKSANDROVICH RYKOV, Doctor of Pedagogical Sciences, professor at the Leningrad Pedagogical Institute;

13. VENIAMIN SEMENOVICH OGARKOV, Doctor of Geological-Mineralogical Sciences, professor at the Tula Polytechnical Institute;

14. NIKOLAY IVANOVICH KOROBOV, Doctor of Technical Sciences, professor at the Moscow Institute of Steel and Alloys;

15. NIKOLAY SEMENOVICH TOROCHESNIKOV, Doctor of Technical Sciences, professor at the Moscow Chemicotechnological Institute;

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USSR

YUDIN, V. A., BYULLETEN' MINISTERSTVA VYSSHEGO I SREDNEGO SPETSIAL'NOGO OBRAZOVANIYA
SSSR in Russian No 10 Oct 73 p 13

16. NIKOLAY NIKOLAYEVICH ABRAMOV, Doctor of Technical Sciences, head of a chair
of the Moscow Engineering-Construction Institute;

17. VLADIMIR DMITRIYEVICH STERLIGOV, Candidate of Architecture, docent of the
Moscow Engineering-Construction Institute;

18. VIKTOR ALEKSEYEVICH POPOV, Doctor of Biological Sciences, head of the Chair
of Nature Protection of Kazan' State University; and

19. PETR ALEKSANDROVICH RYZHOV, professor, Doctor of Technical Sciences, head
of a chair of the Moscow Mining Institute.

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XI ORGANIZATIONAL BRIEFS

1. USSR

DNEPROPETROVSK MEDICAL INSTITUTE

Moscow MEDITSINSKAYA GAZETA in Russian 11 Oct 74 p 3

Prof Ye. Yemel'yanenko--head of the Chair of Faculty Therapy

2. USSR

INSTITUTE OF THE HYGIENE OF CHILDREN AND ADOLESCENTS(MINISTRY OF HEALTH USSR

Moscow MEDITSINSKAYA GAZETA in Russian 11 Oct 74 p 2

Prof Yu. Zhilov--head of the Department of Working Adolescents

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3. USSR

SENIN, V., PRAVDA correspondent

LENINGRAD AGRICULTURAL INSTITUTE

Moscow PRAVDA, 22 July 74, p 6

Translation: At one of the farms of the "Leto" hothouse firm experimental equipment which irradiates plants by pulses has been successfully tested.

This is a proposal by specialists at the Leningrad Agricultural Institute. Instead of conventional sources of constant illumination they put lights which blink periodically on the glass ceilings. Good harvests have been raised under the blinking "sun." But this is not the only gratifying thing about the new method of illumination. It permits an enormous savings of electric energy. There is one more advantage; with energy fed by pulses the lamps always remain cool and virtually never overheat.

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31 Dec 74

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FPD:SOVIET SCIENCE

4. USSR

LENINGRAD SCIENTIFIC RESEARCH INSTITUTE OF EAR, THROAT, NOSE, AND SPEECH DISEASES

Moscow MEDITSINSKAYA GAZETA in Russian 11 Oct 74 p 3

M. K. Mikushkina--head of the Experimental-Physiological Laboratory, Doctor of Medical Sciences

A. N. Ageyev--senior scientific associate

5. USSR

NORTH OSTEIAN MEDICAL INSTITUTE

Moscow MEDITSINSKAYA GAZETA in Russian 11 Oct 74 p 3

F. Ogiyenko--head of the Chair of Nervous Diseases, Doctor of Medical Sciences

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6. USSR

SVERDLOVSK INSTITUTE OF LABOR HYGIENE AND OCCUPATIONAL DISEASES

Moscow MEDITSINSKAYA GAZETA in Russian 4 Dec 74 p 3

N. N. Petrova--scientific associate

L. S. Alekseyeva--senior engineer of the Laboratory of Water Hygiene and Sanitary Protection of Reservoirs

7. USSR

UZBEK SCIENTIFIC RESEARCH INSTITUTE OF SANITATION, HYGIENE, AND OCCUPATION DISEASES

Moscow MEDITSINSKAYA GAZETA in Russian 5 Dec 74 p 2

Prof Sh. Atabayev--director of the Institute

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